

Appln. No. 09/805,833
Amendment After Final Rejection filed January 22, 2004
Response to Office Action dated August 14, 2003

1. (Currently Amended) A color laser display comprising:
a red laser light source for emitting red laser light;
a green laser light source for emitting green laser light;
a blue laser light source for emitting blue laser light;
modulation means for modulating said red laser light, said green laser light,
and said blue laser light, based on a red image signal, a green image signal, and a blue image
signal;
a screen for displaying red, green, and blue when irradiated with said red laser
light, said green laser light, and said blue laser light; and
projection means for projecting said red laser light, said green laser light, and
said blue laser light onto said screen so that an image, carrying said red, green, and blue
image signals, is displayed on said screen;
wherein an excitation solid laser unit, having a solid-state laser crystal
comprising a Pr³⁺:LiYF₄-crystal doped with Pr³⁺ and a GaN semiconductor laser element
emitting excitation light at a wavelength of 440 nm for exciting said solid-state laser crystal,
is employed as at least one of said red laser light source, said green laser light source, or said
blue laser light source.

2. (Original) A color laser display according to claim 1, wherein said excitation
solid laser unit emits laser light of wavelength 600 to 660 nm by a transition of $^3P_0 \rightarrow ^3F_2$ or
 $^3P_0 \rightarrow ^3H_6$ and is employed as said red laser light source.

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3. (Original) A color laser display according to claim 1, wherein said excitation solid laser unit emits laser light of wavelength 515 to 555 nm by a transition of $^3P_1 \rightarrow ^3H_5$ and is employed as said green laser light source.

4. (Original) A color laser display according to claim 2, wherein said excitation solid laser unit emits laser light of wavelength 515 to 555 nm by a transition of $^3P_1 \rightarrow ^3H_5$ and is employed as said green laser light source.

5. (Original) A color laser display according to claim 1, wherein said excitation solid laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3H_4$ and is employed as said blue laser light source.

6. (Original) A color laser display according to claim 2 , wherein said excitation solid laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3H_4$ and is employed as said blue laser light source.

7. (Original) A color laser display according to claim 3 , wherein said excitation solid laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3H_4$ and is employed as said blue laser light source.

8. (Currently Amended) A color laser display comprising:
a red laser light source for emitting red laser light;

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a green laser light source for emitting green laser light;
a blue laser light source for emitting blue laser light;
modulation means for modulating said red laser light, said green laser light, and
said blue laser light, based on a red image signal, a green image signal, and a blue image signal;

a screen for displaying red, green, and blue when irradiated with said red laser
light, said green laser light, and said blue laser light; and

projection means for projecting said red laser light, said green laser light, and
said blue laser light onto said screen so that an image, carrying said red, green, and blue
image signals, is displayed on said screen;

wherein a fiber laser unit, having a fiber, that is one of a Zr fluoride glass-
doped fiber and an In/Ga fluoride glass fiber, with a Pr³⁺-doped core and a GaN
semiconductor laser element emitting excitation light at a wavelength of 440 nm for exciting
said fiber, is employed as at least one of said red laser light source, said green laser light
source, or said blue laser light source.

9. (Original) A color laser display according to claim 8, wherein said fiber
laser unit emits laser light of wavelength 600 to 660 nm by a transition of $^3P_0 \rightarrow ^3F_2$ or $^3P_0 \rightarrow$
 3H_6 and is employed as said red laser light source.

10. (Original) A color laser display according to claim 8, wherein said fiber
laser unit emits laser light of wavelength 515 to 555 nm by a transition of $^3P_1 \rightarrow ^3H_5$ and is
employed as said green laser light source.

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11. (Original) A color laser display according to claim 9, wherein said fiber laser unit emits laser light of wavelength 515 to 555 nm by a transition of $^3P_1 \rightarrow ^3H_5$ and is employed as said green laser light source.

12. (Original) A color laser display according to claim 8, wherein said fiber laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3L_4$ and is employed as said blue laser light source.

13. (Original) A color laser display according to claim 9, wherein said fiber laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3L_4$ and is employed as said blue laser light source.

14. (Original) A color laser display according to claim 10, wherein said fiber laser unit emits laser light of wavelength 465 to 495 nm by a transition of $^3P_0 \rightarrow ^3L_4$ and is employed as said blue laser light source.

15-28. (Cancelled).

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